



Application No. 09/911,558  
Amendment dated September 25, 2006  
After Final Office Action of July 25, 2006

Docket No.: 2936-0134P

### AMENDMENTS TO THE CLAIMS

1. (Currently amended) A radio-frequency receiver comprising:  
a tuning device for selecting a frequency of a radio-frequency signal to receive;  
a mixer for mixing a received radio-frequency signal with a local signal to convert the radio-frequency signal into an intermediate-frequency signal or baseband signal;  
a local signal generator including a frequency multiplier circuit;  
a level switcher for switching an output signal level of the frequency multiplier circuit;  
and  
a controller for controlling the level switcher ~~according to~~ based directly on the selected frequency ~~a frequency of the received signal.~~
2. (Original) A radio-frequency receiver as claimed in claim 1,  
wherein the local signal generator comprises a voltage-controlled oscillator and a frequency multiplier circuit for multiplying a frequency of an output signal of the voltage-controlled oscillator.
3. (Currently amended) A radio-frequency receiver comprising:  
a tuning device for selecting a frequency of a radio-frequency signal to receive;  
a mixer for mixing a received radio-frequency signal with a local signal to convert the radio-frequency signal into an intermediate-frequency signal or baseband signal;  
a local signal generator;  
a level switcher for switching an output signal level of the local signal generator; and  
a controller for controlling the level switcher ~~according to a~~ based directly on the selected frequency of the received signal;  
wherein the local signal generator comprises a voltage-controlled oscillator and a frequency multiplier circuit for multiplying a frequency of an output signal of the voltage-controlled oscillator; and  
wherein the local signal generator includes a phase-locked loop circuit for controlling an

oscillation frequency of the voltage-controlled oscillator, and the controller outputs a first control signal for controlling ~~controls~~ the voltage-controlled oscillator through the phase-locked loop circuit ~~by using a control signal~~, and ~~also controls~~ outputs a second control signal for controlling the level switcher ~~by using another control signal corresponding to the control signal~~.

4. (Original) A radio-frequency receiver as claimed in claim 1,  
wherein the level switcher comprises a regulator and a switch for varying an output voltage of the regulator, and varies a gain of the frequency multiplier circuit by using the output voltage of the regulator.

5. (Original) A radio-frequency receiver as claimed in claim 1,  
wherein the radio-frequency receiver is for receiving digital satellite broadcast.

6. (Original) A radio-frequency receiver as claimed in claim 1,  
wherein the local signal generator comprises a plurality of VCOs and a VCO switcher for switching among the VCOs so that one of the VCOs is selected and connected to the frequency multiplier circuit at a time.

7. (Original) A radio-frequency receiver as claimed in claim 6,  
wherein the controller controls both the level switcher and the VCO switcher according to the frequency of the received signal.

Claim 8 (Cancelled).

9. (Currently amended) ~~The method of claim 8~~ A method of controlling a radio-frequency receiver comprising the steps of:  
selecting a frequency for receiving a radio-frequency signal;  
generating a local signal using a local signal generator;  
providing a mixer for mixing a received radio-frequency signal with the local signal to

convert the radio-frequency signal into an intermediate-frequency signal or baseband signal; and  
controlling an output signal level of the local signal generator based directly on the  
selected frequency, wherein said step of generating a local signal using a local signal generator comprises the steps of generating a voltage controlled oscillator signal using a voltage controlled oscillator and multiplying the voltage controlled oscillator signal by a multiplier.

10. (Previously presented) The method of claim 9 wherein said step of controlling an output signal level of the local signal generator includes the step of holding the multiplier constant.

11. (New) A method of controlling a radio-frequency receiver comprising the steps of:  
selecting a frequency for receiving a radio-frequency signal;  
generating a local signal using a local signal generator;  
providing a mixer for mixing a received radio-frequency signal with the local signal to  
convert the radio-frequency signal into an intermediate-frequency signal or baseband signal;  
providing a level switching circuit for controlling an output level of the local signal  
generator independently of the frequency of a received radio frequency signal; and  
controlling the level switching circuit to set a first output level of the local signal  
generator when a first frequency is selected for reception and to set a second output level of the  
local signal generator, different from the first output level, when a second frequency is selected  
for reception.